

Title (en)
A low power adjustable input threshold circuit

Title (de)
Leistungsarme einstellbare Schwellwert-Schaltung

Title (fr)
Circuit à seuil ajustable de basse puissance

Publication
EP 1041718 A2 20001004 (EN)

Application
EP 00105976 A 20000324

Priority
US 28043199 A 19990329

Abstract (en)
A variable threshold comparator 30 receiving, on an input node 26, an input signal having a voltage, and providing an output signal on an output node 28 when the voltage of the input signal exceeds a selectable threshold voltage of the comparator. The comparator includes a transistor T1 coupled by way of its source and drain between a power supply VDD and the output node, and having its gate coupled to the input node. Also included are a plurality of pairs of transistors T2/T3, T4/T5, T6/T7, ...TN/TN+1, coupled together by a source of a first one of the pair of transistors and a drain of a second one of the pair of transistors, and coupled in series between the output node and a ground, a gate of the first one of the transistors coupled to the input node, and a gate of the second one of the transistors coupled to a control signal VC1, VC2, VC3, VC4, ..., VCN, specific to the second one of the transistors. The threshold voltage of the comparator is selectable by the application of one or more of the control signals to a respective one or more of the second ones of said transistors. <IMAGE>

IPC 1-7
H03K 17/30

IPC 8 full level
G01R 19/165 (2006.01); **H03K 5/08** (2006.01); **H03K 17/30** (2006.01); **H03K 19/0944** (2006.01)

CPC (source: EP US)
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